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PLANTAE MEXICANAE I

BY

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A NEW LEPANTHES FROM OAXACA

Lepanthes Rekoi *R.E. Schultes sp. nov.*

Herba epiphytica, laxe caespitosa. Caules secundarii gracillimi, apice unifoliati, plus minusve quadrivaginati, vaginarum ostiis infundibuliformibus hispidis. Folium late ellipticum, marginatum, obtusum vel subacutum. Inflorescentiae folium superantes. Flores pauci, succedanei, in racemis brevibus. Sepala lateralia late lanceolata, binervia, oblique acuminata, apice acuta. Sepalum dorsale late lanceolatum, acuminatum, trinervium. Petala transverse elliptica inter lobos cum apiculo. Labellum trilobatum; lobi laterales anguste elliptici, apice incurvati; lobus medius lobis lateralibus multo brevior, dense glandulosus. Columna superne dilatata.

Epiphytic herb, up to 4.5 cm. high. Secondary stems erect, 1.5–2.5 cm. long, concealed by about four closely appressed, more or less hyaline sheaths of which each one terminates in an infundibuliform mouth; sheaths hispidulous along the prominent nerves and on the thickened margin of the mouths. Uppermost sheath enclosing the petiole of the leaf. Leaves broadly elliptic, marginate, obtuse or subacute, 1–1.5 cm. long, about 7 mm. wide. Flowering stems overtopping the leaves. Flowers few,

borne in succession in abbreviated racemes. Lateral sepals coherent for about one half their length, broadly lanceolate, narrowing asymmetrically to an acute tip, 5 mm. long, 1.5 mm. wide, 2-nerved, the inner nerve more prominent. Dorsal sepal broadly lanceolate, narrowing to an acute tip, 5 mm. long, 2 mm. wide, 3-nerved. Petals transversely elliptical in outline, much wider than long, with a pronounced apicule between the lobes, 2 mm. wide. Labellum 3-lobed; lateral lobes narrowly elliptic, less than 1 mm. long, distally incurved; middle lobe much shorter than the lateral lobes, narrowly triangular, densely glandulosus, concealed by the column. Column dilated upwards.

I take pleasure in naming this plant in honor of Dr. Blas Pablo Reko of Tacubaya, D.F., Mexico, who was co-collector with me on my 1938 trip to Oaxaca and who has been an enthusiastic collector and student of Mexican plants for more than a quarter of a century.

Only two specimens of *Lepanthes Rekoi* were found, one in fruit, and one in flower. It is an extremely inconspicuous plant, growing imbedded in dense moss and lichen growth on the limbs of oak trees in excessively damp, cool rain-forests. The flowers are very small, predominantly yellow, but with slightly reddish veins in the sepals, red petals, and dark red labellum.

Another collection referable to this species was made by Juan Gonzales in Puebla, not far from the type locality in northern Oaxaca. This collection differs from the type in having smaller flowers.

The only species which seems closely allied to *Lepanthes Rekoi* is *L. Dawsonii* Ames ex Yuncker (in Field Mus. Nat. Hist., Bot. Ser. 17 (Contrib. Fl. Honduras) (1938) 327 (Publ. 405)) from Honduras. The sepals of this Honduranian plant agree in shape and size, but not in neuration, with those of *L. Rekoi*, and there are important similarities in the labellum and column, as well as in the size and form of the vegetative parts. The petals, however, are quite different from those of *L. Rekoi* in lacking the pronounced apicule. The flowers of *L. Dawsonii* are yellow and have an amethyst-purple labellum, while the labellum of *L. Rekoi* is deep red.

MEXICO: epiphytic on mossy oaks in cool rain-forest near Cerro del Fraile, Huautla de Jimenez, Oaxaca, at about 7,500 feet altitude, August 2, 1938, *Richard Evans Schultes & Blas Pablo Reko 336* (TYPE in Herb. Ames No. 50775); north of Teziutlan, Mt. Tiguayapán, Puebla, at 1480 meters altitude, June 30, 1933, *Juan* G[*onzales*] *2415*.

NOTES ON THE GENUS SOBRALIA

BY

CHARLES SCHWEINFURTH

THE FOLLOWING NOTES on Sobralia include reductions occasioned by a critical study of Peruvian Orchidaceae and the description of a new species of that genus from Costa Rica.

Sobralia dichotoma *Ruiz & Pavon* Syst. Veg. Fl. Peruv. et Chil. (1798) 232—Poeppig & Endlicher Nov. Gen. ac Sp. Pl. 1 (1835) 54.

Sobralia Mandonii Reichenbach filius Xen. Orch. 2 (1873) 175, t. 175, fig. I, 1.

In erecting his new concept, *Sobralia Mandonii*, Reichenbach used as his major point of distinction from *S. dichotoma* the fact that the peduncles were simple and straight, whereas those of *S. dichotoma* were dichotomous and fractiflex. To be sure, the inflorescences in the isotypes of *S. Mandonii* in the Herbarium of Oakes Ames and in the Gray Herbarium are simple, as well as in several Peruvian collections apparently referable to that species. One Peruvian collection of this complex (*F. L. Herrera 3230*), however, bears one simple peduncle and one dichotomous peduncle, thus indicating that the character is a variable one. Furthermore, in all collections of this complex, whether they have a simple or dichotomous inflorescence, the rachis is more or less fractiflex.

In both concepts the petals appear to have a more or less undulate upper margin.

In his description of *S. Mandonii* Reichenbach says that the lip is simple, whereas he implies that the lip of *S. dichotoma* is 3-lobed, a character which is definitely imputed to *S. dichotoma* by Lindley. (Fol. Orch. Sobralia (1854) p. 2). However, Poeppig and Endlicher (l. c.) make no mention of such a character in the lip of *S. dichotoma.* Certainly no definite lobing is shown in the lip of the plants which are reasonably identified with *S. dichotoma,* although the plicated margin of the lips of both species frequently make the outline appear somewhat 3-lobed.

It is significant that a flower of a specimen doubtless referable to *S. dichotoma* (with a much branched inflorescence) appears to be nearly identical with a flower of the isotype of *S. Mandonii.*

Sobralia scopulorum *Reichenbach filius* Xen. Orch. 2 (1873) 176, t. 175, fig. II, 2–3.

Sobralia alstroemerioides Schlechter in Fedde Repert. Beihefte 9 (1921) 43; 57 (1929) t. 102, Nr. 398.

From a careful study of the descriptions of the two species illustrated by floral analyses, there seems to be no doubt that they are conspecific and that the collection attributed by Kränzlin (in Weberbauer Pflanzenw. Peruv. And. (1911) 239) to *S. scopulorum* was correctly interpreted. In fact the difference in the structure of the lips, which is relied upon for the separation of the two concepts, appears to be inconsequential. The flowers are practically identical in appearance.

The only significant difference to be noted is that the stem of *S. scopulorum* is said to be "spithamaeus" (about 17.7 cm. high) while that of *S. alstroemerioides* Schltr. is described as "c. metralis" (about 100 cm. high), but in Sobralia the height of the flowering stem is very variable.

Sobralia undatocarinata *C. Schweinfurth sp. nov.*

Herba robusta, terrestris vel epiphytica. Caulis elatus, inferne vaginis tubularibus et superne foliis ornatus. Folia elliptico-lanceolata, valde acuminata. Flores e bracteis erectis imbricantibus nonnullis erumpentes. Sepala similia, lanceolato- vel elliptico-oblonga. Petala sepalis similia, tenuiora. Labellum in circuitu oblongo-ovatum, apice bidentatum; discus carinis undulatis novem ornatus. Columna pergracilis, arcuatus, apice cum brachiis binis triangulari-lanceolatis.

Plant stout, terrestrial or epiphytic. Stem present up to about 13.7 dm. tall, about 7 mm. in diameter near the base, woody, provided below with remote close tubular sheaths which are 8.3 cm. or less long and above by about four leaves. Leaves elliptic-lanceolate, up to 23.5 cm. long and 7.9 cm. wide, long-acuminate to an acute point, cuneate below, chartaceous when dry, with about eleven conspicuous nerves beneath. Inflorescence consisting of one or more showy flowers emerging from a cluster of erect imbricating bracts, the lowermost and largest bract consisting of an ovate-lanceolate blade about 8.2 cm. long which is articulated to a sheath about 3.8 cm. long. Flowers nodding before expansion, white with the lip striped with purple. Dorsal sepal connate with the lateral sepals at the base, lanceolate-oblong, free part about 4.5 cm. long and 13 mm. wide, obtuse with a dorsal mucro, comparatively firm in texture, 11-nerved. Lateral sepals similar to the dorsal sepal, elliptic-oblong, the free portion about 4.5 cm. long and 13 mm. wide, acute and mucronate, 11-nerved. Petals oblong-elliptic, obtuse, about 4.5 cm. long and 14 mm. wide, 9-nerved, thinner in texture than the sepals. Lip oblong-ovate in outline with the basal third round-dilated and the apex strongly bilobed, about 4.7 cm. long from the base to the tip of an apical lobule and 2.8 cm. wide across the dilated basal portion. Disc provided near the base with a small fleshy transverse keel and in front with nine thin longitudinal keels; the outermost keel consists of a relatively high thin plate extending about to the middle of the disc; the next inner keel is similar but diminishes in height and extends as a wavy keel to about one third the distance to the apex;

the two pairs of keels on either side of the center are low and undulate running nearly to the apex of the lamina; the central keel appears to originate near the anterior third of the disc and, increasing in height, to extend as an undulate ridge nearly to the apex. Column very slender, arcuate, about 3.1 cm. long, dilated above, with a pair of triangular-lanceolate arms.

Another collection (*Manuel Valerio 2412*) is referable to this species. However, it is rather more slender than the type. Its leaves are slightly longer and narrower, up to 26 cm. long and 7 cm. wide. Its flowers are rather smaller, the sepals, petals and lip being about 3.5–3.8 cm. long and the outer keels on the disc of the lip are reduced in size.

Sobralia undatocarinata appears to be related to *S. luteola* Rolfe from which it differs in having ecarinate lateral sepals and in the lip lacking fimbriate-pilose nerves.

Costa Rica: La Estrella de Cartago, "Flor blanca con el labelo listado de púrpura. . . . Comprada a un campesino", August 22, 1933, *A.M. Brenes 206* (Type in Herb. Ames No. 46367); La Palma, at 1500 meters altitude, "Flor blanca, lustrosa, con el centro interior del petalo central lila morado-Una o mas flores en cada inflorencencia-Florece en agosto y setiembre-Confinada a determinada zona en La Palma-Epifita o terrestre-", August 16, 1937, *Manuel Valerio 2412.*

NOMENCLATORIAL NOTES. VIII

BY

CHARLES SCHWEINFURTH

Pleurothallis lancilabris (*Reichb.f.*) *Schlechter* var. **oxyglossa** (*Schltr.*) *C. Schweinfurth comb. nov.*

Pleurothallis oxyglossa Schlechter in Fedde Repert. 10 (1912) 354.

Pleurothallis Schulzeana Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 396.

Pleurothallis oxyglossa differs from the older *P. lancilabris* in having a usually strongly fractiflex rachis together with more elongate-acuminate floral segments. These differences, however, are not always well-marked, certain intergrades being evident. The differences are embodied in the following varietal diagnosis:

Haec varietas a specie rhachide plus minusve valde fractiflexa atque perianthii segmentis longe acuminatis differt.

Moreover, it seems clear from a careful study of copious Central American material, as well as from the type descriptions and drawings of the types made under the supervision of Dr. Schlechter that the Costa Rican *Pleurothallis Schulzeana* is conspecific with the Guatemalan *P. oxyglossa*, the only variation being inconsequential differences in measurements.

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page 7, line 7
    delete the parenthesis before 203
page 9, line 1
    for ed read de
page 50, line 35
    for (1864) read (1904)
page 67, line 26
    for *Curcurbita* read *Cucurbita*
page 72, line 5
    for 1 read 3
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    for 3 read 1
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    for is read are
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    for Lyons read Lyon
page 165, line 19
    for Baskervillea read Baskervilla
page 171, line 4
    after satisfied insert in 1933
page 196, line 5
    for orchidaceae read Orchidaceae

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